

4998

Diag. Cht. No. 5602-2

4998

Form 504 Ed. June, 1928	
DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY R.S. Patton, Director	
C. & G. SURVEY L. & A. APR 8 1930 Acc. No.	
State: CALIFORNIA	
DESCRIPTIVE REPORT	
Topographic } Hydrographic }	Sheet No. 5 4998
LOCALITY	
NORTHERN COAST OF CALIFORNIA Trinidad Head TRINIDAD TO SAMOA	
Samoa to Trinidad Head	
19.29	
CHIEF OF PARTY	
A.P. Ratti	H. & G. E.

DESCRIPTIVE REPORT

To accompany Hydrographic Sheet Field No. 5, Trinidad
southward to Samoa, Humboldt County, Northern Coast of California.

** ** * * ** * * **

DATE OF INSTRUCTIONS.-

Instructions covering this sheet were dated April 27, 1929.

SURVEY METHODS.-

All soundings on this sheet were obtained with the hand-lead, and all positions of soundings were determined by visual fixes using signals located by triangulation and topography executed in 1929 and shown on topographic sheet field no.E.

Work on this sheet consisted in supplementing the work shown on sheets 1296 and 1295.

DANGERS.-

There are no dangers on this sheet. The bottom characteristics of the area covered by this sheet is sand.

COMPARISON WITH PREVIOUS SURVEYS.-

Soundings on this sheet check very favorably with those shown on sheets 1296 and 1295.

Respectfully submitted,

Augustus P. Ratti

H. & G.E., Chief of Party.

T I D A L D A T A . S H E E T N O . 5 .

Location of tide gauge:	Trinidad Harbor.
Plane of Reference:	MLLW 3.66 feet.
Highest Tide:	11.5 "
Lowest "	1.5 "
Type of gauge:	Portable automatic.

S T A T I S T I C S S H E E T N O . 5.
* * * * *

Date 1929	Letter	Volume	Positions	Soundings	Miles Stat.	Vessel.
Aug. 2	a	1	130	507	28.6	Rogue
" 19	b	1	41	172	7.0	"
" 20	c	1	64	256	16.1	"
" 26	d	1	62	216	14.2	"
" 27	e	1	67	339	12.2	"
" 27	e	2	122	579	24.4	"
" 28	f	2	31	105	6.4	"
" 30	g	2	<u>16</u>	<u>57</u>	<u>3.1</u>	"
TOTALS			533	2231	112.0	

SECTION OF FIELD RECORDS
REPORT ON H 4998.

SURVEYED 17 AUGUST-1929.

Chief of Party - A. P. Ratti

Surveyed by - A. P. R.

Protracted by - G. M. Marchand.

Soundings Plotted by G. M. M.

Verified and Inked by L. S. Straw.

1. The records conform to the requirements of the General Instructions.
2. The plan and Character of development fulfill the requirements of Gen. Instructions.
3. Sounding lines crossings are adequate for this comparatively smooth bottom.
4. The usual depth and shown fairly well developed on this sheet. However, between positions 82a and 22c the 3 and 5 fathoms curves are shown dotted because of the excessive distance between sounding lines hence a definite location of the curve is not possible.
5. The field plotting was done satisfactorily.
6. It was not necessary to do over any part of the drafting done by the field party.
7. Further survey is not required to fully develop important areas within the limits of this sheet.
8. Junctions of this sheet (H 4998) with H. 5001 and H 4997 are satisfactory.

Respectfully submitted

August 4, 1930.

L. S. Straw

FOR FILES OF FIELD RECORDS SECTION

Ech
720

May 8, 1930

Division of Hydrography and Topography:

Division of Charts:

Tide Reducers are approved in
2 volumes of sounding records for

HYDROGRAPHIC SHEET 4998

Locality: California (Trinidad -Humboldt Bay)

Chief of Party: A. P. Ratti, in 1929

Plane of reference is mean lower low water, reading
4.5 ft. on tide staff at North Jetty, Humboldt Bay
12.5 ft. below B. M. 3

Tide 3/4 hour earlier than at North Jetty

Condition of records satisfactory except as checked below:

1. Locality and sublocality of survey omitted.
2. Month and day of month omitted.
3. Time meridian not given at beginning of day's work.
4. Time (whether A.M. or P.M.) not given at beginning of day's work.
5. Soundings (whether in feet or fathoms) not clearly shown in record.
6. Leadline correction entered in wrong column.
7. Field reductions entered in "Office" column.
8. Location of tide gauge not given at beginning of day's work.
9. Leadline corrections not clearly stated.
10. Kind of sounding tube used not stated.
11. Sounding tube No. entered in column of "Soundings" instead of "Remarks".
12. Legibility of record could be improved.
13. Remarks.



Chief, Division of Tides and Currents.

IN REPLY ADDRESS THE DIRECTOR
U. S. COAST AND GEODETIC SURVEY
AND NOT THE SIGNER OF THIS LETTER

AND REFER TO No. 11-WSW

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

WASHINGTON

August 28, 1930.

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 4998

Samoa - Trinidad Head, California

Surveyed in 1929

Instructions dated April 27, 1929

Chief of Party, A. P. Ratti.

Surveyed by A. P. Ratti.


Protracted and soundings plotted by G. M. Marchand.

Verified and inked by L. S. ^{Straw}Shaw.


1. The records conform to the requirements of the general instructions.
2. The work conforms generally to the specific instructions. There are a few cases where the old survey (sheet No. 1296) observed shoal indications which might have been further developed. However, as the bottom is of fine gray sand, and the depth is about 6 1/2 fathoms, it is believed that nothing dangerous to navigation is there.
3. The small bank in Lat. 41° 02' 00", Long. 124° 09' 1020^m with a least depth shown on their sheet of 8 1/2 fathoms agrees in position with the location on sheet 1157 but not in depth. The old survey sheet No. 1157 shows 6 1/4 fathoms as least depth. The old survey is a complete and adequate survey. Inasmuch as this bank is fully developed on sheet H. 4997, it is recommended that final disposition should await the review of H. 4997.
4. The soundings on this sheet agree very well with those shown on the old sheet No. 1296. The maximum difference being one fathom. The bottom characteristics agree throughout. The depth curves agree fairly well, but have not been modified by considering both sheets together. It is recommended that this modification be made in compiling the data for charting.
5. No additional work is required as the survey is complete and conforms with the instructions. However if future work is done in the locality of the bank mentioned in 3, above, a further attempt should be made to verify the 6 1/4 fathom sounding shown on sheet No. 1157.

6. Junctions with No. 1157 and No. 4997 on the north and No. 1296 on the south are satisfactory.
7. Reviewed by I. E. Rittenburg, August, 1930.

Approved:



Chief, Section of Field Records (CHARTS)



Chief, Section of Field Work (H. & T.)

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

REG. NO.
4998

The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. 5

REGISTER NO. 4998 *diagram 53077*

State CALIFORNIA

General locality ~~NORTH COAST~~ Trinidad Head

Locality ~~TRINIDAD TO SAMOA~~ Samoa to Trinidad Head

Scale 1-20000 Date of survey Aug. 2 to 30, 19 29

Vessel Chartered Launch Rogue

Chief of Party A.P. Ratti

Surveyed by A.P. Ratti

Protracted by G.M. Marchand

Soundings penciled by G.M. Marchand

Soundings in fathoms feet

Plane of reference MLLW Trinidad

Subdivision of wire dragged areas by —

Inked by L.S. Straw

Verified by L.S.S.

Instructions dated April 27, 19 29

Remarks: Work on this sheet supplements that shown
on sheets 1296 and 1295

Field Records Section (Charts)

HYDROGRAPHIC SHEET No. *H-4998*

The following statistics will be submitted with the cartographer's report on the sheet:

Number of positions on sheet	<i>.533</i>
Number of positions checked	<i>1.14</i>
Number of positions revised	<i>..0..</i>
Number of soundings recorded	<i>2231.</i>
Number of soundings revised	<i>..0..</i>
Number of signals erroneously plotted or transferred	<i>..0..</i>

Date: *AUG. 4. 1930*.....
Cartographer: *L. S. Straw*.....

6. Junctions with No. 1157 and No. 4997 on the north and No. 1296 on the south are satisfactory.
7. Reviewed by I. E. Rittenburg, August, 1930.

Approved:

Chief, Section of Field Records (CHARTS)

Chief, Section of Field Work (H. & T.)

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

WASHINGTON

August 28, 1930.

AND REFER TO NO. 11-WSW

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 4999

False Cape - Humboldt Bay - California.

Surveyed in 1929

Instructions dated April 27, 1929.

Chief of Party, A. P. Ratti.

Surveyed by A. P. Ratti.

Protracted and soundings plotted by G. M. Marchand.

Verified and inked by L. S. Straw.

1. The records conform to the requirements of the general instructions.
2. The survey, as stated in the descriptive report, was not completed, due to weather conditions and hence is incomplete. That portion which is done conforms to the requirements of the specific instructions.
3. The junction with H. 5001 issatisfactory.
4. The junction with H. 1150 was not made due to the incompletion of the survey.
5. Additional work is necessary to complete this survey in accordance with the instructions of April 27, 1929. The work should be carried closer inshore if possible without too great a delay. The 5 3/4 fathoms sounding shown on H. 1294 in Lat. 40° 33' 945" Long. 124° 22' 250" should be examined and developed as it is a well defined "shoal indication". This development should be done when survey is completed.
6. Soundings agree satisfactorily with the old work, differing approximately 1 fathom.
7. Reviewed by I. E. Rittenburg, August, 1930.

Approved:

Chief, Section of Field Records (CHARTS)

Chief, Section of Field Work (H. & T.)

11-WSW

August 28, 1930.

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 4998

Samoa - Trinidad Head, California

Surveyed in 1929

Instructions dated April 27, 1929

Chief of Party, A. P. Ratti.

Surveyed by A. P. Ratti.

Protracted and soundings plotted by G. M. Marchand.

Verified and inked by L. S. Shaw.

1. The records conform to the requirements of the general instructions.
2. The work conforms generally to the specific instructions. There are a few cases where the old survey (sheet No. 1296) observed shoal indications which might have been further developed. However, as the bottom is of fine gray sand, and the depth is about 6 1/2 fathoms, it is believed that nothing dangerous to navigation is there.
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4. The soundings on this sheet agree very well with those shown on the old sheet No. 1296. The maximum difference being one fathom. The bottom characteristics agree throughout. The depth curves agree fairly well, but have not been modified by considering both sheets together. It is recommended that this modification be made in compiling the data for charting.
5. No additional work is required as the survey is complete and conforms with the instructions. However if future work is done in the locality of the bank mentioned in 3, above, a further attempt should be made to verify the 6 1/4 fathom sounding shown on sheet No. 1157.

app'd to det 5637 Recomed. July 17 1953 *Earl W. Berglund*